

## ABSTRACT OF THE DISCLOSURE

Processes for producing higher molecular weight ketones are  
5 disclosed that include the steps of feeding an aldol catalyst solution, a  
lower molecular weight aldehyde, and a lower molecular weight ketone,  
through a reactor provided with a solid hydrogenation catalyst and  
hydrogen gas; recovering a liquid reactor effluent containing the higher  
molecular weight ketone as a reaction product; and recycling a portion of  
10 the recovered liquid reactor effluent back through the reactor.

15

n:\docket\71556\Application US02